



Aero Society To Have Special Exhibit At N. E. Aviation Show, Dec. 2-5

Show is a Section of Benefit
Affair Held by Army
And Navy Club

Plans have been completed and apparatus is rapidly being assembled for the Aero Society exhibit at the Military Tournament Bazaar, and New England Aviation Show which will be held in Mechanics Building, December 2 to 5.

Cards have been sent out to members of the Society, asking what time they can give during the exhibition, and great interest is being shown. Working at the Show will take the place of building a light plane, the construction of which had been planned formerly, but relinquished in favor of the Show. An outlet will thus be given for the action which would have been undertaken if the Light Plane had been constructed.

DEAN ATTENDS TWO NEW YORK MEETINGS

Will Be in Washington, D. C.,
Next Saturday

Technology was represented at the meeting of the Interfraternity Conference at the Hotel Pennsylvania in New York last Saturday by Dean Talbot '85, who is in that city for the purpose of attending that meeting and one of a sub-committee of the Society for the Promotion of Engineering Education. He will return to the Institute Wednesday.

This committee is making a study of engineering graduates and former students and will be held December 3 at the Engineering Societies Building at 29 West 39th St. Next Saturday, the Dean will attend a meeting of the Directors of the American Chemical Society in Washington, D. C.

PROF. D. C. JACKSON AT SMOKER OF VI-A

Speaks of Success of Honor
Groups and Tells of
Forming Others

Professor D. C. Jackson, in charge of the Electrical Engineering Department, spoke at the VI-A smoker last Tuesday evening on the "Honor Group."

Course VI and VI-C now have groups of picked students which are known as the Honor Group, which group because of past scholastic records are allowed certain privileges. These privileges include the freedom of attending classes or not as the individual desires. The group is not required to hand in home problems nor write out the usual laboratory reports but is expected to successfully pass all tests.

The purpose of this group is to allow each of its members to study in the way that best suits him. By removing the necessity of attending classes the student who feels that he can learn more in an hour of reading in the library or elsewhere than by attending a class is at liberty to do so.

Professor W. H. Timbie also spoke on this subject and disclosed the fact that of the 12 honor men in one of his sections but 5 attend classes. It is expected that the honor system will have proved very successful in the other courses.

Before the talks a bowling match was held between the Faculty and a team of students which was won by the Faculty team. The arrangements for the smoker were made by R. A. Hammar '26.

WALKER COMMITTEE MEETING TOMORROW

Annual competition for freshmen membership on the Walker Memorial Committee opens today. A meeting in the committee room of Walker will be held tomorrow at 5 o'clock at which time plans will be explained and candidates given instructions as to their duties. This competition will end December 18.

All candidates have an equal chance for election to the committee. The successful man surviving the three year competition will be made chairman for his senior year.

DR. GARNETT WILL ADDRESS FACULTY CLUB AT LUNCHEON

Is Executive Secretary of the
League of Nations Union
Of Great Britain

AUTHOR OF MANY PAPERS

Dr. J. C. M. Garnett, former Dean of the Faculty of Technology at the University of Manchester, England, and at present Executive Secretary of the League of Nations Union of Great Britain, will address the Faculty Club at luncheon tomorrow in Walker Memorial.

While in the United States, Dr. Garnett will speak on "Education and World Citizenship" and "The Purpose of Education," and will probably choose one of these topics for his talk Tuesday. He is the author of numerous papers which have been published in the proceedings of the Royal Society, and in the British Journal of Psychology.

Individual Has a Purpose

In his book, "Education and World Citizenship," Dr. Garnett, discusses the aims and purposes of education. He assumes that each individual is in the world for some purpose, definitely linked up with the purposes of his fellow workers, neighbors, citizens and the whole state of mankind.

He sets forth that the education of the individual should help him to avoid the uncertain habit of mind which leaves him prey to the clash of rival interests and render consistent and effective conduct impossible. It should give him the power to link up the separate interests and purposes that form life and develop in his life a single wide interest centered in a dominant purpose.

If this can be accomplished Dr. Garnett believes that man will no longer have to labor incessantly merely to exist, but will have time to think and make the best use of the wealth of knowledge the higher standards will bring. Such education is not a "primrose path" but requires strenuous intellectual discipline and much practice in hard thinking.

TECHNOLOGY REVIEW ON SALE TOMORROW

Aldred Lecture By John Hayes
Hammond Is Featured

The Technology Review, monthly magazine of the Alumni Association, has grouped some 22 clippings from the public press both here and abroad relative to the action of the Walker Memorial Committee in permitting smoking by girls attending dances in Walker for its December number which goes on student sale tomorrow morning.

Both in its "Editorial Comment" and in its "Undergraduate Affairs" columns, the Review plays up the events of Field Day and other undergraduate news items of the past month for the benefit of Alumni.

"Have Pride in Your Profession," by John Hays Hammond is the Review's leading article, based upon Mr. Hammond's Aldred lecture of October 16. He sketches, hurriedly, the history of engineering, and emphasizes the need for the engineer in political and social life. The editors of the Review characterize the article as "The Sons of Martha" in prose.

XV SENIORS HEAR WHITING WILLIAMS

"Standardization and Monotony in Manufacturing" was the title of a lecture which was given last Friday afternoon to Course XV Seniors by Whiting Williams one of the foremost investigators of modern labor problems. The lecture was delivered to the men taking Economics 71, which is a course in business management.

Williams is the author of several books on the labor situation such as "What Is On The Worker's Mind?" and "Mainsprings of Men." He lectures regularly at Harvard University and has investigated at first hand labor conditions in the United States, England, France, Belgium and Italy.

Nominees For Junior Prom Committee

The following men have been nominated for the Junior Prom Committee. Five of these candidates will be selected at the election which will be held Wednesday in the Main Lobby from 8:00 to 5:00 o'clock and in Rogers Building from 12:00 to 2:00 o'clock.

D. C. Arnold
F. S. Badger, Jr.
C. A. Bartlett
W. P. Berkeley
J. T. Chirurg
Fordyce Coburn
P. I. Cole
M. A. Collins
F. J. Crandell
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B. T. duPont
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J. S. Yates
T. C. Grier
F. H. Hately
P. N. Ivancich
M. D. James
Lee McCanne
D. C. Metzger
G. G. Morrill
H. G. Steinbrenner
A. J. Tacy
W. L. Taggart, Jr.
R. C. Wallace
C. H. Wies
P. T. Wilson
L. B. Woolfenden

FROSH LECTURE ON HOW TO KEEP WELL

"How to Keep Well and How to Keep Fit" will be the subject of this week's freshman lecture on "Personal Hygiene" to be given by Professor J. W. M. Bunker of the Biology Department.

This lecture completes the series of three Medical lectures arranged for by the Medical Department. The next of the freshman lectures has not as yet been announced from the Dean's office.

Attendance at the freshman lectures this year though not compulsory has been quite large. In previous years it has been the custom to require attendance at the three lectures given by the Medical Department. This year a new scheme has been adopted, compulsory attendance has been abolished, and arrangements were made to give talks to first year men each week.

The scope of the freshman talks has been broadened and men not connected with the Institute will be secured to speak on subjects of general interest. The interest shown by the first year men in the Aldred lectures indicates that there is a demand for these lectures.

ELECTRICALS HEAR PAPER BY STUDENT

Various Uses of Thermionic
Valves Discussed

Uses of the vacuum tube for purposes other than those met with in communication work were discussed in a paper by O. M. Hovgaard '26, presented at the meeting of the Electrical Engineering Society held last Friday in room 10-267.

The general physical principles of the thermionic valve were first spoken of, so that the latter part of the talk might be more clearly understood. Applications of the electron tube discussed were as follows; regulation of generators, as high tension switches, as ionization manometers, as sources of unchanging frequency of bridge measurement, and as voltmeters which draw no power from the line measured.

It was announced that a convention of the student branches of the A. I. E. in the first district (the Northeastern states) will be held at Technology in the spring. It is hoped to secure Dr. Michael Pupin as speaker.

Prominent Educators To Speak Before Student Conference Held At Wesleyan

Educational problems will be the topic of discussion at the student conference to be held on December 4, 5 and 6 in Middletown, Conn., under the auspices of Wesleyan University. The discussion is an annual one, and is known officially as "An Intercollegiate Parley on American College Education."

While head of Princeton University former President Wilson made a strong plea in favor of this idea. The materializing of Wilson's ideals in this respect is indicated by a similar undergraduate conference to take place at Princeton both being held at the same date.

One of the questions that will be considered is the advancement of education so that colleges would correspond to the grade of graduate schools. This proposition, which has in the past stirred up thought at Technology, would mean that the present freshman and Sophomore years would be eliminated, and advanced work would be proportionately increased.

Dr. Alexander Meiklejohn, former President of Amherst College, will open the Parley with a critical analysis.

ALUMNI COUNCIL MEETING TONIGHT

Several Societies Combine To
Hold This Affair

To-night at 6:30 o'clock in North Hall, Walker, the Alumni Council will hold a joint meeting with Technology members of the "Society for the Promotion of Engineering Education," "Technology Chapter of American Association of University Professors," and the "Massachusetts Institute of Technology Faculty Club."

The meeting will start with an informal supper which will be served in the North Hall Walker lunch room. After the supper there will be speeches followed by a general discussion on the speakers' topics and the "Question" for the evening's discussion.

W. E. Wickenden, Director of Investigation, S. P. E. E. and a former member of the Faculty in Electrical Engineering Department will speak on "The Technical and General Training of the European Engineer."

Following this Professor William Emerson, head of the Department of Architecture and in charge of the General Studies at the Institute, will speak on "The Humanistic Training of the European Engineer."

NORTH HALL IS NOW NEWLY DECORATED

Redecoration of North Hall, Walker was completed last Friday with the waxing of the floor. The room is now ready for all sorts of affairs and dancing. A sum of \$700 has been spent on the repairs and \$200 expended for the resurfacing of the hard wood floor, which is the only one of its kind in the Institute, available for dances.

According to the Walker Memorial Committee North Hall popularity has been reduced due to its bareness.

BOSTON STEEL MEN PLAN MEETING HERE

Boston Chapter of the American Society for Steel Treating will hold a dinner and meeting in Walker Memorial on Friday evening, December 4. According to Professor R. S. Williams of the Department of Chemistry this meeting will probably be attended by many of the leading chemists and engineers connected with the numerous steel industries of the New England states.

At 7:30 Professor Albert Sauveur, Professor of Metallurgy and Metallurgy at Harvard University, will deliver an address on the "Directional Properties of Steel." It is expected that Dr. Sauveur will deal with the properties of steel due to fibrous structure and will also probably view the properties of steel in the light of recent microscopic investigations.

The address will be illustrated with lantern slides. Dr. Sauveur, according to Professor Williams, is one of the leading authorities on the properties of steel in the United States. Students will be very welcome at this lecture.

CALENDAR

Monday, November 30
5:00—Board Meeting of the Mechanical Engineering Society
6:30—Alumni Council dinner, North Hall, Walker
8:00—Musical Club Concert at Edison Employees Club House at the Edison Service Station on Mass. Ave.
Tuesday, December 1
7:30—Lecture on concrete mixes, 3-270.
Wednesday, December 2
8:00—Aeronautical Engineering Society Exhibit, Mechanics Building.
Thursday, December 3
7:30—Lecture on Health Administration, 10-419.
Friday, December 4
6:30—American Society for Steel Treatment dinner, Walker.
7:30—Business Meeting of American Society for Steel Treatment in 5-330.
8:00—Dorm Dance, Main Hall, Walker.

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SUBSCRIPTION PRICE, \$2.50 PER YEAR
Published every Monday, Wednesday and
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Entered as Second Class Matter at the
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FRENZIED FINANCE

FRATERNITY life at the Institute is in the grip of Frenzied Finance, and unless the Fraternities awaken to that fact, their true meaning will have succumbed in the struggle. Few of the houses can claim possession of that old time honored fraternal feeling that was once the keynote of fraternity life—a group of men living together as brothers in spirit congenial.

Today Technology fraternities have almost sunk to the level of eating clubs. No longer is a freshman inducted into the bonds of fraternity life because it is thought the fraternity can do him any good, or that those already claiming to be brothers feel that they are ready to call him "brother," but rather each neophyte represents so much man power, so much additional income each month to relieve the heavily taxed coffers of the fraternity.

With the increased expenses incident to maintaining a house the individual fraternities have taken up one and all the hue and cry—"we must have men—income bearing units, if the house is to be maintained," rather than the thought, "Can I call him brother?" Such seems to be the keynote as expressed in the manner in which the fraternities conducted their rushing this Fall.

If the true meaning of fraternity life is to be rescued from the mire into which it is fast sinking the houses must be willing to forego the large establishments they are trying to maintain at the expense of fraternal feeling and move into less pretentious quarters where fraternal spirit in the best meaning of the word can live without being stifled by the thought of finances. In defense of the fraternities at Technology, it is to be noted that the condition prevalent here is not wholly local but exists throughout all American College life.

This thought is no excuse for Technology fraternity men to accept the situation placidly but rather to take the initiative in ameliorating this condition if not for the sake of their chapter for the good of their national organization. What the other fellow will think is all that is holding them back. Why not face the problem?

ACTIVITY MEN—MAGNIFIED

BENEATH the ambition and energy of activity "go-getters" runs a common bilge of egoism. It springs from minds that coddle delusions of grandeur. Chief Henchmen of Alma Mater, consummate college men, perfect biological specimens they consider themselves, and with lusty shouts proceed to impress these delusions upon everyone. They pound it into the skulls of ambitious freshmen that activity men are the only complete men, and that they and only they are getting full measured draughts of the Pierian Spring. With hoarser whoops they sneer at men not of their kind and call them Brown Baggers, the Yahoos of the college community.

Their fraternity enters into this psychological jag. It adds to their conceit. They proceed to look at the non-fraternity man with arched eyebrows and supercilious mien, exulting that they themselves are among the chosen few that have been admitted to the ghostly circle. And then with a strange inconsistency they turn and debase the angelic choir they boast of by making it a political springboard. This they do with all the ingenuity of the ward politician.

Once a job is secured, the expansion of the cranium is most noticeable. Also the growth of the Moral Spirit. Each considers himself a missionary for the ideals of Rotary and forthwith enters enthusiastically into every drive, movement, and idea that comes along. And all the time they become deeply engrossed in their petty activities and their perfunctory duties. The fascination of activity work steals upon them almost unnoticed and they do not realize until too late that they have sunk into a mire of extra-curricular waste and intellectual stagnation. Activity participation, to change the metaphor, proves to be an opiate enshrouding them in sleep and pleasant dreams. . . . delusions of grandeur.

Could these aberrations permit thorough, purposeful work? Certainly they prevent real intellectual attainment. And it is the men that have given rise to such aberrations that sneer and sniff at those they dub Brown Baggers, some of the few men who have intellectual interests and individual methods of pursuing them. . . .

This is perhaps a pantographic exaggeration of undergraduate conditions, but it is indicative of the fundamental danger and lurking fallacy of undergraduate life. It is not an attack upon activities; it is the expression of a doubt concerning the balance and perspective of many men that participate in them. What is your opinion?

THE TECH BOOK LIST

The following books have been carefully chosen by the editors of this publication with the assistance of the publishers as being of interest and import to our readers. It is not purposed to discuss books of a scientific nature but ones of amusing and cultural value. Additional information concerning such books will be furnished upon request.

A FURIOSUM

PETER THE CZAR, by Klabund (translated by H. G. Scheffauer). New York. G. P. Putnam's Sons. \$2.00.

Alphonse Daudet observed that "in the tumult of the great human factory souls often get into the wrong covering—masculine souls into feminine bodies, feminine souls into cyclopean frames." He might have added that the elements of men's souls become mixed also—spirituality with ambition, genius with brutality. A man like Peter the Great demands this corollary for he had a mongrel soul in a cyclopean frame. For one moment he would be a statesman, the greatest leader Russia ever had; the next moment he would be the most carnal and wolfish of men, one of the most brutal Europe ever saw.

So here indeed is a man for you. And here is a book that exhibits this man, that dramatizes and vivifies him with a tempo of jazz and a roll of thunder. In the book is something demoniacal which is as it should be to express properly a demoniacal genius; the method of the book buffets and cavorts in spirit congenial with the wolfish Peter. It shows Peter in his youth and his troubles with the jealous Sofia. His rise to power, his tireless energy, his continual obscenity, his notorious trip through Europe and his installation of European ideas and methods in Russia are all narrated with the utmost verve and emphasis. The legends surrounding Peter are woven in and the liberties of fiction and impressionistic writing are freely employed, making it a highly colored novel historically accurate in relief.

The value of the book is this: it is a picture in lines and shadows of specific emphases and pregnant implications. As compared to a matter-of-fact account of the life of Peter, it is as a painting compared to a photograph. The one embodies artistic delineation, the other, garish like-ness. This novelized biography is keen in apprehension; it leaves an impression of Peter that is indelible, whether it be admiration or disgust.

It takes out of the obscure pages of history a man, and shows his salient characteristics and in the process tears into his vitals gruesomely. Some may not relish the bold exhibit; others prefer the whole man as he is shown.

In the beginning: "Woe unto them that dwell upon the earth! The sun has borne a golden child. The child shall lash us with a fiery knout!" At the end: "he was like a great satyr, rendered impotent by age, remaining amorous from habit." "Behold in me the whole misery of the creature man!"—then death—then Katharina.

An amusing satire, ingeniously imagined and skilfully presented, on present day dramatic tendencies is to be found in Bonamy Debree's "Timothaeus, or the Future of the Theatre," a new volume in the Today and Tomorrow Series, published by E. P. Dutton & Co. The time imagined is some two-hundred years hence when the ultra-modern spirit of today has had time to work itself out along its distinctive lines. It is a clever skit and makes thoroughly enjoyable reading.

W. B. Maxwell, whose tales of "The Devil's Garden" and "The Day's Journey," are well-known in America, has set down his conception of life and the meaning of it all in a volume entitled simply "Life" (Doubleday, Page & Company). The book is the working philosophy of a clear-thinking, well balanced, refreshingly sane and kindly Englishman, who holds fast to the basic ethical values that have made the Anglo-Saxon race, and finds them good.

ENDOWMENT ASSETS OF COLLEGES GROW

That educational institutions in the United States are enjoying a period of expansion may be pointed out by a survey of the endowments and contributions made to the educational institutions for the year 1924. The contributions made to engineering education show that a much greater interest is being taken in engineering schools than has been the custom in the past.

The General Educational Board made contributions amounting to some two millions of dollars. This amount was distributed in endowments and fellowships to medical schools and various colleges. Northwestern University raised an endowment fund of five million dollars. Harvard School of Business Administration was given an equal amount by

IRISH ROMANCE

O'MALLEY OF SHANGANAGH, by Donn Byrne. New York: The Century Co. \$1.25.

Here is another of those little books which the readers of Donn Byrne have come to look for. In it Byrne has captured more of the charm of his *Messer Marco Polo* than he has in any of the intervening stories. *O'Malley of Shanganagh* does not contain the broad sweep of imagination that *Messer Marco Polo* has, but it does contain even more of the beautiful poetic prose of which Byrne is a master.

The plot of the story is quite simple. De Bourke O'Malley returns to his home in Shanganagh after a long absence. His old friends have all moved away and in a neighboring mansion has been set up an order of Protestant nuns. On his long rambles O'Malley meets Joan, one of the nuns, and falls in love with her. She tells him that she is only a novice and they run away and are married.

After the honeymoon they return to Shanganagh but are strictly ignored by the neighbors. Joan admits to O'Malley that she has been "married to the church" and believes that they are living in adultery. She moves to her own side of the house and he is left absolutely alone. He gradually takes to solitary drinking and when Joan returns to the convent he changes his name and moves to Dublin. Here he spends the rest of his life, pathetically alone, always slightly drunk, a gentleman forced to live away from his class.

Joan, as are all of Byrne's heroines, is wistfully and sweetly beautiful. She, as her sisters, are a trifle vague. What characterization Byrne gives us is in his men. O'Malley has not the genius or the physical greatness of Marco Polo or Blind Raftery but he is the traditional Irish gentleman, the type which youngsters dream of being and older men wish they could even dream about.

The chief interest of the book, however, lies neither in plot nor in character but in style. Here is a book for those who can enjoy being carried along by a flow of words—not verbiage but beautiful wistful sentences, telling an interesting tale of an almost legendary Ireland. It can be read in a couple of hours but its impression will last.

Doubleday, Page & Company announce that in association with their English partners, William Heinemann, Ltd., they will shortly establish the Windmill Press, an English publishing company devoted to the printing of beautiful, hand-set limited editions. Stanley Morrison, one of the most famous of English artist printers will design the books.

Putnam's have arranged to publish a translation of Mme. Marcelle Tinayre's "La Vie Amoureuse de Mme. de Pompadour" this spring. No life makes stranger reading than the subject of this biography. That Mme. de Pompadour was brought up from infancy with the definite purpose of fulfilling the role she eventually assumed, is in itself, perhaps, the most remarkable fact. Ethel Colburn Mayne has completed her translation and the English edition is already printed, including a beautiful reproduction of the Greuse head of Pompadour as the frontispiece.

So far no descriptive adjective—or noun for that matter—can be found to describe "Peter the Czar." True it is a biography—but still one can hardly use so imposing a word for this brief yet powerful volume—besides, the liberties of fiction have been taken.

G. F. Baker. The Carnegie Corporation and George Eastman were generous benefactors. The corporation gave thirty-six thousand dollars for the promotion of engineering education, \$12,500 to the California Institute of Technology and \$10,000 to the University of Rochester. Mr. Eastman gave \$2,500,000 to the University of Rochester and, what is of interest to all Tech men, in December, 1924, turned over securities valued at \$9,054,232.86 with the agreement that the Institute should pay \$4,500,000 for them within fifteen years. Technology's clear balance remains at \$4,554,282.86. Since that time income from these investments has amounted to \$244,532.32 and the sale of some of the securities at prices above their book value has made a profit of \$347,238.72. Through the Eastman contract the endowments of Tech increased 59.85 per cent in the past year. The total endowments now are \$27,477.73.

AMERICANS TO OFFER FRENCH FELLOWSHIPS

The American Field Service Fellowships for French Universities is offering eleven fellowships for 1926-27 to graduates of colleges and professional schools. The purpose of these fellowships is to provide a fitting memorial to the Field Service men who were killed in the war and to promote mutual understanding and good-will between France and the United States. They are available for any male citizen of the United States who has practical ability in the use of French books and the required education.

There is a long list of subjects which may be pursued, but those of most interest to Technology students are Architecture, Biology, Chemistry, Economics, Geology, Mathematics, Physics, and Zoology. The chosen subject may be pursued in almost any French university that is desired. The value of the fellowships are \$1,200 and may be renewed a second year if the circumstances warrant it.

Further information about these fellowships can be obtained from the French bulletin board outside of room 2-165.

A new scale of tuition scholarship stipends and a higher minimum standard of qualifications for scholarship aid has been adopted at Yale and will be effective this year for incoming freshmen, and next year for all undergraduates.

The annual Christmas trip of the Williams musical clubs has been definitely cancelled.

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Bracelets \$5.50-\$7.50

Bar Pins \$3.50-\$10.75

Chains \$1.00-\$8.00

Linger

THIRD HANDICAP MEET GREAT SUCCESS

Great Interest Shown As Seventy-Five Men Report For Third Handicap Meet

When over seventy-five men reported for the second handicap meet of the season on Saturday, track came to life with a bang around the Institute. Fifty-seven men alone reported for the various track events, twenty-seven of whom entered the mile and a quarter run. Both Doc Connors and Os Hedlund began to feel that they would turn out a first class track and field event team when they saw the interest shown in Saturday's meet.

Another handicap meet will be run next week, and it is expected that there will be still more entries in the various events. Only two of the cross country teams were out for the longer runs on Saturday and it is expected that most of these men will report at that time. Doc Connors is planning on running off a few more events next meet, including a pole vault and a 70-yard high hurdle event.

Two Heats in Short Dash

In the meet held Saturday, there was another double winner, N. E. Earle, who captured two firsts during the course of the afternoon, and a third in another event. In the last handicap meet, A. H. Shedd captured two firsts in the two dashes. In Saturday's meet, Earle captured a first in the 175 yard dash and another first in the broadjump, two entirely different events. His third place came in the shorter dash.

There were so many entries in the 75-yard dash that it was necessary to run this event off in two heats. Keyser won his heat from a good field of eight men, while Shedd captured the second heat. In the final heat, it was a close race between Keyser and Shedd, with Keyser capturing the verdict. Earle took third in this event, with Berman a good fourth.

Leness Second in 500

In the 175-yard dash, it was a close race between Earle and Keyser until the last few yards, when Barbour uncorked a pretty finish and passed Keyser just before the tape. All of these men had an even chance with a 10-foot handicap. C. Smith, with a six-foot handicap ran a good race to finish fourth.

In the 500-yard run, I. W. Stevenson surprised the coaches and those followers of track that were present by running wild, and finishing with the rest of the field yards behind. Stevenson was given a 50-yard handicap which even George Leness could not compete with, the way Stevenson ran Saturday. Stevenson started with the gun and was never headed, finishing a good twenty yards ahead of George Leness. Leness passed all the rest of the field but had to be content with a second as it was impossible to cut down all of Stevenson's fifty-yard handicap. M. H. Fay ran a pretty race to come in after Leness.

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HOCKEY TEAM HAS MORNING PRACTICE ON ARENA SURFACE

Men Shaping Up Well For The First Game With B. U. On December 8

VETERANS IN CONDITION

Terriers Will Present Strong Lineup In First Game Of the Season

On Saturday morning at seven o'clock the candidates for the Technology Varsity hockey team had a stiff one hour workout at the Boston Arena. This is the first time that the puck chasers have had a chance at morning practice, their other sessions having been in the evenings from six to seven.

It was through the efforts of Manager Carroll that George Brown, the owner of the Arena, was persuaded to make a change in the practice hours. The morning work fits in with the men's program much better than does the evening. As a result more aspirants for the teams were present last Saturday than have appeared since the first practice.

Have First Team Practice

Considering the short time that the fellows have had for practice, they shape up very well. The first game is scheduled for a week from Thursday so that there will be very little time to actually get the players into good condition. Of course the veterans, Johnny Deignan, Crandall, Randall and Berkeley, will work into top form quickly, but the two men that must fit in at right wing and center will lack intercollegiate experience.

For the first time this year the men played as a team, the other sessions having been devoted to passing and shooting at the net. Informal sides were arranged and the fellows played a hot game for about half an hour. Deke Crandall and Bill Berkeley paired up exceptionally well on the defense, breaking up plays time after time when the disk seemed headed straight for the cage. If ever the defense did let one slip through, Captain Johnny Deignan was right there at his position as goal guard to stop it.

In Richards the team has a great little goalie who will alternate with his captain. He made some classy stops on Saturday morning that would do justice to a seasoned veteran. With a little more experience he should develop into a real star and be well able to regularly take care of his position next year. Randall's work at center ice and wing was lightning fast and more than once he would carry the whirling rubber right through the defense only to be stopped by the work of Richards.

First Game with Boston University
If a strong passing game can be developed in the next few weeks, Technology should have a mighty formidable team to put on the ice. At present, of course, the tendency is more towards individual play than team work, but this should wear off as the season advances.

Boston University, the team's first opponent, has a fairly good team this year and will provide plenty of opposition for all that come against them. It will be no mean feat to slip the puck through the Terriers goal this year, as little Don Martin is back with the big stick again this year. The Woburn lad is one of the cleverest cage guards in the college ranks. Last winter he shared the spotlight with Sonny Foley, the Boston College star.

Charlie Harding of Harvard was out practicing with the Engineers last week. It will be remembered that Charlie was a star on the Crimson frosh two years ago. Last fall he was ineligible, but this season he is getting a start on his team mates by starting the season early. He is as clever as ever on the ice and will undoubtedly be one of the regulars on the University team.

Sports Desk

When twenty seven men lined up for the starter's gun in the mile and a quarter handicap Saturday, it looked like the entry list to the B. A. A. marathon. Men were stretched all over the track, and still most of the men that were on the cross country team did not compete. As it was, it was two of the Varsity cross country team that captured first and second.

Soccer Team Has Nine Veterans Back As A Nucleus For Next Season's Team

Lack of Coach Handicaps Team But End of Season Sees Improvement

With the final whistle of the West Point game the 1925 soccer season at the Institute was officially closed, that being the last scheduled game of the season, but it is possible that an informal game will be arranged with some local amateur team this week or next. The season is officially over, however, and it is opportune at this time to look at the 1925 season in retrospect.

Starting the year with the handicap of not having a coach and with the necessity of filling several gaps made in last year's squad, the prospects of a winning team were very slim; but the candidates immediately went to work under the able tutelage of Captain Arana and a team was formed to represent Technology even though there was no regular coach. As might be expected under the circumstances, the team did not make a very good showing at the start. The opening game with New Hampshire State was lost 3 to 2 but the Engineers had but ten men in the lineup and so were under quite a serious handicap. The next game with Worcester Polytech was also lost by one point, the final score being 2 to 1. Lack of experience and teamwork were responsible for the loss of this game. Both of these fracs showed that the Institute team was a strong defensive aggregation.

Defeat Northeastern and Clark

The game with Dartmouth was the sore spot of the entire season and, what should have been a close game according to the "dope," ended with the Beavers on the short end of a 10 to 1 score. From this game on a steady improvement was shown in the all around playing of the entire squad and in the first informal game with Harvard ten days later the hitherto dormant offensive came to the front and almost pulled the game out of the fire by making two scores in the second period. The game ended 3 to 2 in favor of the crimson.

With the team coming along fast now, the next two games were won easily from Northeastern and Clark University. Both of these games were characterized by the fast running game and stone wall defense of the Engineers. Northeastern went down 4 to 0 while Clark succumbed 3 to 1. Flushed with these two victories a much encouraged eleven went to West Point to play what was considered the toughest game of the season. This game showed the soccerites at their peak and they were barely nosed out by the cadets 1 to 0.

Four Men Lost

As a nucleus for next year there will be 9 men, seven of whom were regulars, from the 1925 squad centered around Captain Arana. Young, Jones, Martinez, and Hsin have all played their last game for the Institute. Young and Jones are backs while Martinez and Hsin played on the forward line. All four men played on the Varsity for the last three years and their loss will be felt keenly. It is hoped that a coach will be found to take charge of the squad next year. Although Captain Arana made a fine substitute this year, it is too much for a man to play and coach the team at the same time.

HOOPSTERS ALMOST READY FOR OPENER

With only a little over a week of practice before their first game the basketball team is putting in hours of hard practice so they will be in condition to snatch the verdict from New Bedford Textile team. The men with Varsity experience, Captain Forrester, Ernie Hinck and Jud Biele, are almost in shape, and should put up a great fight in the first game. The other positions are not certain, as Coach McCarthy is still working to find a suitable combination.

There is no doubt that Forrester, Hinck and Biele will be the nucleus around which the team will be built. Hinck, if not the best intercollegiate guard in New England, is right up there among the top-notchers. Forrester has also shown improvement this year over the stellar game he exhibited last year. Biele has developed wonderfully since he first reported for the team and should prove a hard man to beat at the tapoff position.

RIFLE TEAM HOLDS PRACTICE MATCHES

Telegraphic Matches With High Schools Being Held Until Season Opens

After losing the first set of practice matches to Bangor High School, the newly organized R. O. T. C. Rifle Team triumphed over New Bedford High School and Gloucester High School simultaneously.

A week ago, the team representing Bangor High School turned in a perfect score, making seven possibles while Technology was only able to garner one perfect score. The final score was 500 to 496 in favor of the high school lads. Harbeck was the only member of the Technology team to turn in a perfect score. Following is the Technology lineup and results: Harbeck—100, Johnson—99, Clahane—99, Reddig—99, Marsh—99, Wengen—98, Mathiesen—98, Russell—97, Hoak—97, Elliott—96.

Last week the R. O. T. C. Rifle Team representing Technology defeated successively the rifle teams representing New Bedford High School and Gloucester High School. The former score was 497-496 over New Bedford High School. Two possibles were turned in by members of the Technology aggregation. Reddig and Elliott each having a perfect score. The Technology lineup and score: Reddig—100, Elliott—100, Keyes—99, Harbeck—99, Sammis—99, Wengen—98, Johnson—98, Hoak—97, Clahane—97, Marsh—94.

These matches were held by telegraph and show the results of a month of practice under the new consolidation. Last year the R. O. T. C. and Varsity Rifle Teams were separate but under the new system that is the combination of the two teams, Lieutenant Levy, coach of the team, expects to round out a much stronger combination this season.

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On Marlborough Street, an admirable location for a fraternity house, on reasonable terms. 3 bathrooms and 6 fireplaces. Accommodations make the place desirable for a group of men. Terms, \$7000 cash. Phone Bowdoin 1799-M.

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CONCERT TONIGHT BY MUSICAL CLUBS

Affair Is at Edison Club On
Massachusetts Avenue

Specialty acts for the Musical Club Concert tonight at the Edison Club on Massachusetts Avenue include a piano duet by F. A. Jones '29 and C. S. McCune '29, and a glee quartette consisting of F. A. Thas '28, F. W. Schreiner '26, R. S. Harris '28, and E. V. Fasce, G. This concert is given by the Employees Club of the Edison Electric Illuminating Company of Boston at their auditorium at the Company's Service Grounds. The clubs will put on a program very similar to Filene's Concert.

"Gypsy Love Song" is one of the new numbers to be played by the Mandolin Club under the leadership of D. S. Cunningham '26. The Banjo will play the same selections of popular pieces that were played at the Filene Concert and will be led by Raymond Mancha '26. The Glee Club, of which F. W. Schreiner is the leader, will also render the same program as at the Filene Concert.

The Techonians led by M. M. Fireman '26 and coached by "Dok" Eisenbourg '12, will play the usual program with the addition of a few of the latest popular pieces. This organization will furnish the music for dancing which is to follow the concert, and to continue until 12 o'clock.

FRATERNITIES SEND MEN TO CONFERENCE

Two Technology men attended the National Undergraduate Interfraternity conference which was held at the Hotel Pennsylvania, New York, November 27 to 28. The Technology Fraternity representatives were A. W. French '26, and W. W. Farr '27.

This conference has been held once a year since 1909 in New York, and last year was attended by representatives from about 67 fraternities. The main purpose of the Technology men is to gain all the information possible concerning other interfraternity conferences in an effort to get ideas on improving the one at the Institute.

LECTURES GIVEN IN HEALTH EDUCATION

Professor C. E. Turner '17 of the Department of Biology is giving a course of ten lectures in the "Administration of Health Education" on Thursday evenings at 7:30 o'clock in room 10-419. The lectures began November 12.

General principles of organization and administration of health education is being taken up, and an attempt is being made to include the latest developments and improvements in that field. The course is intended primarily for graduate students in education, but is open to physicians, health officers, schools principals, school nurses, and supervisors of instruction in physical training and nutrition.

Intercollegiates

Rather interesting is a clipping from "Public Opinion," an English weekly. Nobody ever thinks of London as a university city, while, according to Mr. Kingsgate, London is "the biggest 'Varsity city in the Empire." The registers of London University for the last academic year showed 8860 international students or undergraduates. Against this Oxford has 4150 and Cambridge 5000 undergraduates who, combined, outnumber London by only 200.

* * * * *

A warning to car drivers comes from the results of physical exams given at the Georgia School of Technology, one sixth of the freshmen having deformed shoulders. According to the explanation given by those examined, this condition is caused by the habit of holding the left arm on the window edge of sedans.

President Of Swarthmore Tells Of Honor Courses In Colleges

(The following article was secured by the News from Frank Aydelotte, President of Swarthmore College, concerning Honors Courses in American colleges and universities. President Aydelotte has published recently a bulletin on this subject for the National Research Council.)

The Academic system up to the present time in vogue in our American colleges and universities is planned to meet the needs of the average student, and, while not beyond the possibility of improvement, it meets his needs extremely well. Our average college student, while anxious to get a degree, is not a person who is consumed with burning intellectual interests and enthusiasm. He is not likely to have any very definite intellectual plans. He is not likely to have read very much before he comes to the university, and he has only vague ideas of the intellectual values which he has a right to expect from the studies he is about to undertake. On the other hand, he is a willing worker and his belief in the value of education is perhaps our greatest single asset.

For this student our ordinary academic system works passably well. It leads him forward by short steps and feeds him carefully with a spoon until such time as he is able to take his intellectual food in larger quantities. It checks him up at every turn and prevents any extended neglect of his academic duties.

Some Effort Necessary

If he cuts his classes, if he fails to hand in his themes or exercises on time, if he absents himself from tests, hour exams, or semester examinations, he is at once taken in hand by a Dean. Operating this system, our college officials have made it impossible for a student in the United States to get a degree without doing at least a certain amount of work; the minimum may be small, but it is indispensable.

It may be seriously questioned whether, even for the average student, improvements could not be made in this system, but it can hardly be questioned that it is an extremely bad system for the best.

These latter can read through their text book the first two or three weeks of the semester and, if they are faithful attendants of their classes and other academic exercises, they can make a passable showing in their courses by doing no work at all during the greater part of the college year. If they are docile and obedient, they will continue to do a certain amount of work and they will be rewarded by Phi Beta Kappa keys and other marks of distinction at Commencement time. If they are so constructed as to have a certain feeling of contempt for this attitude of docility and for what is to them mere "busy work," they spend their time in our highly developed college activities—possibly, one is constrained to admit, without much detriment to their intellectual development.

Hard Work Beneficial

It is a very bad thing for any young person in the course of his education not to be pushed to the limit of his abilities; it is, only by working as hard as he can that he learns how hard he can work. But it is no solution of the problem for students of the type here discussed to be given merely a larger quantity of work of the same sort. In certain cases, that is allowed, and such students do four years' work in three. But the principal gain is one of time; there is no corresponding improvement in educational quality. We may get a hint as to what is needed by a moment's consideration of the significance of the college activities mentioned in the preceding paragraph.

There are many people employing college graduates in business who value successful participation in college activities more highly than they do academic distinction. A great many of our keen undergraduates hold the same opinion. And there is just this much justification for it, that college activities offer scope, as academic work of the usual type does not, for those qualities of independence and

initiative which are much more valuable for success in any field than the convenient virtue of docility which our academic system tends to encourage.

If we are going to provide a program which will do the best thing for students of unusual ability, it must be a program which is not merely more severe than the ordinary, but which offers a larger opportunity than the ordinary program for the development of intellectual independence and originality.

The problem is one which is just coming to the front in American education, but it is one which has long ago been met and solved in the older English and Continental educational systems. The English solution of it, which frankly distinguishes between the "pass" degree and the degree "with honors," seems to be a necessary one for us. It is a better solution for our purposes than the Continental one, because the problem faced by the English universities is more similar to our own.

Lear From German System

It is only in the English speaking world that universities are places for undergraduate instruction. Cardinal Newman's *Idea of a University* could only have been written in an English speaking country. The Continental universities are places of post-graduate and professional education. We owe a great deal more intellectually to Germany than we have been willing to confess since the World War. But we have, in one respect, been rather misled by the German university system and have tried to apply to undergraduates their method of instruction which was only meant for post-graduate and professional students, and which has not worked well with our younger material.

The English universities have had centuries of experience in doing just what we are trying to do in our undergraduate courses and it is not surprising that their methods should be full of suggestions for us.

Notices and Announcements

OFFICIAL

DYNAMO LABORATORY REPORTS

All reports on experiments performed in the dynamo laboratory previous to this term will be destroyed by Dec. 1 unless called for.

UNDERGRADUATE

AERONAUTICAL SOCIETY

Members who wish to conduct the Aero. Society booth at the Aviation Show next week are reminded that they must submit their free time to the Information Office at once.

WALKER MEMORIAL COMMITTEE

Freshman competition for the Walker Memorial Committee will start November 30 on which date schedule cards are to be left in the office. There will be a meeting of the candidates in the Committee Room of the Walker Memorial Building at 5:00 o'clock tomorrow.

This competition ends on December 18 at which time three Freshman will be chosen for the committee.

STOLEN OVERCOATS

Men whose overcoats have been stolen in Walker which have not been returned please see the Assistant Superintendent of Buildings in his office in the basement of building 3.

M. E. SOCIETY

There will be a meeting of the board of Mechanical Engineering Society this afternoon at 5 o'clock.

CEMENT LECTURE TO BE HELD TOMORROW

Lectures on concrete mixes will start tomorrow evening at 8 o'clock in room 3-270 with W. C. Voss as lecturer and L. T. C. Loring, district engineer of the Portland Cement Association, as demonstrator. Elaborate preparations have been made for the experiments which will illustrate the points emphasized by the speaker. At this talk "Concrete of Predetermined Strength" will be discussed fully after which questions will be answered by Mr. Voss if time will allow.

This course of six lectures and demonstrations is open to anyone, free of charge, registration is to be had at the Boston Headquarters of Portland Cement Association, 10 High Street. According to the lecturer, it is hoped that these talks will clarify the various phases about concrete in the minds of those engineers and contractors who are somewhat uncertain on these matters.

RADIO EXHIBITIONS SHOW LATEST MODEL

Is Development of Weagant— De Forest Engineer

While many new models were offered at the big radio exhibits this year, the shows were interesting because they revealed a new trend in the plans of manufacturers. The one outstanding feature was a general concentration on cabinet styles.

With only a single exception, that of the De Forest Radio Company, the hook-ups were much the same as in previous years and offered no great amount of speculation, but the De Forest model was unique, not only because its cabinet is an object of art, but because it introduces something entirely new in the way of a circuit. This is the invention of R. C. Weagant, vice president and chief engineer of the De Forest Radio Company, and a former associate of Marconi.

Through the use of this circuit, for the first time in the history of radio, all disagreeable grating noises can be eliminated.

Every radio enthusiast knows there is a tendency for the receiver to oscillate, due to its internal capacity when used in tuned amplifying circuits. A great many engineers have been at work on one scheme or another to overcome this. Most of them believed it would be accomplished by inserting resistance or capacity between tubes and attempting to produce equal and opposite potentials on the grid and plate of the radio frequency tube, but Weagant worked on an entirely different theory. He has so arranged the phase relations of the voltage of the output circuit that it can never get into supporting relations with the input voltage. In other words, he has controlled phase relations and not the feed back potentials.

This circuit delivers as much amplification with two tubes as is ordinarily obtained by the use of three or four tubes, and the receiver operates over greater distances on a loop antenna, using only two stages of radio frequency amplification.

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